INDIANA PROJECT WET

State Science Standards Correlation to Activities

Please use the following correlations of the Project WET activities to the Indiana State Science Standards for your planning needs.

Project WET provides workshops throughout the state, and they can Be designed to meet your grade level or group needs.

Correlations will be available on line at:

projectwet.in.gov

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THIRD GRADE

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Project WET Activities correlated to the Indiana State Science Standards

Page	Project WET Activity
3	***Check It Out!*** Explore a variety of performance assessment strategies
7	***Idea Pools*** Become familiar with pre-assessment strategies
9	***Let's Work Together*** Use cooperative learning strategies
12	***Water Action*** Propose, analyze, and implement action strategies
19	***Water Log*** Assess student learning through a journal of portfolio
25	***Adventures in Density*** Experiment with density and explore examples of density in classic literature
30	***H_2Olympics*** Compete in a water Olympics to investigate adhesion and cohesion
35	***Hangin' Together*** Mimic hydrogen bonding in surface tension, ice formation, evaporation, ad solutions
43	**Is *There Water on Zork?*** Test the properties of water
47	***Molecule in Motion*** Simulate molecular movement in water's three states
50	***Water Match*** Match water picture cards and discover the three states of water
54	***What's the Solution*** Solve a crime while investigating the dissolving power of water
63	***Aqua Bodies*** Estimate the amount of water in a person, a cactus, or a whale
66	***Aqua Notes*** Sing to discover how the human body uses water
72	***Let's Even Things Out*** Demonstrate osmosis and diffusion
76	***Life Box (The)*** Discover the elements essential to life
79	***Life in the Fast Lane*** Explore Temporary wetlands
85	***No Bellyachers*** Show how pathogens are transmitted by water by playing a game of tag
89	***People of the Bog*** Construct a classroom bog
93	***Poison Pump*** Solve a mystery about a waterborne disease
99	***Salt Marsh Players*** Role-play organisms adapted to life in a salt marsh
107	***Super Sleuths*** Search for others who share similar symptoms of a waterborne disease
116	***Thirsty Plants*** Demonstrate transpiration and conduct a field study
122	***Water Address*** Analyze clues to match organisms with water-related adaptations
129	***Branching Out!*** Construct a watershed model
133	***Capture, Store, and Release*** Use a household sponge to demonstrate how wetlands get wet and how they contribute to a watershed
136	***Get the Ground Water Picture*** Create an "earth window" to investigate ground water systems
144	***Geyser Guts*** Demonstrate the workings of a geyser
150	***Great Stony book (The)*** Create layers of buried fossils and read a great stony book
155	***House of Seasons (A)*** Create a collage that peeks through a "window" to reveal the role of water in each season
157	***Imagine!*** Imagine a water molecule on its water journey
161	***Incredible Journey (The)*** Simulate the movement of water through Earth's systems
166	**Just Passing Through** Mimic the movement of water down a slope

Page	Project WET Activity
171	***Old Water*** Create a mural that relates events to the age of Earth, water, and life
174	***Piece It Together*** Explore global climates and their influence on lifestyles
182	***Poetic Precipitation*** Simulate cloud formation and express feelings toward precipitation through poetry
186	***Rainy -Day Hike*** Explore schoolyard topography and its effect on the watershed
191	***Stream Sense*** Develop sensory awareness of a stream
196	***Thunderstorm (The)*** Simulate the sounds of thunderstorm and create precipitation maps
201	***Water Models*** Construct models of the water cycle and adapt them for different biomes
206	***Wet Vacation*** Plot data to determine weather patterns and design appealing travel brochures
212	***Wetland Soils in Living Color*** Classify soil types using a simple color key
219	***A-maze-ing Water*** Negotiate a maze to investigate nonpoint source pollution
223	***Color Me a Watershed*** Interpret maps to analyze changes in a watershed
232	***Common Water*** Demonstrate that water is a shared resource
238	***Drop in the Bucket (A)*** Calculate the availability of fresh water on Earth
242	***Energetic Water*** Design devices to make water do work
246	***Great Water Journeys*** Use clues to track great water journey of plants, people, and other animals on a map
254	***Irrigation Interpretation*** Model different irrigation systems
260	***Long Haul (The)*** Haul water to appreciate the amount of water used daily
262	***Nature Rules!*** Write news stories based on natural, water-related disasters
267	***Sum of the Parts*** Demonstrate nonpoint source pollution
271	***Water Meter*** Construct a water meter and keep track of personal water use
274	***Water Works*** Create a web of water users
279	***Where Are the Frogs*** Run a simulation and experiment to understand the effects of acid rain
289	***AfterMath*** Assess economic effects of water-related disasters
293	**Back to the Future** Analyze streamflow data to predict floods and water shortages
300	***CEO (The)*** Become a Chief executive Officer (CEO) and learn about business/corporate water management challenges
303	***Dust Bowls and Failed Levees*** Witness, through literature, the effects of drought and flood on human populations
307	***Every Drop Counts*** Identify and implement water conservation habits
311	***Grave Mistake (A)*** Analyze data to solve a ground water mystery
316	***Humpty Dumpty*** Simulate a restoration project by putting the pieces of an ecosystem back together
322	***Macroinvertebrate Mayhem*** Illustrate, through a game of tag, how macroinvertebrate populations indicate water quality
328	***Money Down the Drain*** Observe and calculate water waste from a dripping faucet
333	***Price is Right (The)*** Analyze costs for building a water development project
338	***Pucker Effect (The)*** Simulate ground water testing to discover the source of contamination
344	***Reaching Your Limits*** "Limbo" to learn basic water quality concepts and standards development
348	***Sparkling Water*** Develop strategies to clean wastewater

Page	Project WET Activity
353	***Super Bowl Surge*** Develop a strategy to accommodate the demands on a wastewater treatment plant
360	***Wet-Work Shuffle*** Sequence the water careers involved in getting water to and from the home
367	***Choices and Preferences, Water Index*** Develop a “water index” to rank water uses
373	***Cold Cash in the Icebox*** Create a mini-insulator to prevent an ice cube from melting
377	***Dilemma Derby*** Examine differing values in resolving water resource management dilemmas
382	***Easy Street*** Compare quantities of water used in the late 1800s to the present
388	***Hot Water*** Debate water issues
392	***Pass the Jug*** Simulate water rights policies with a "jug" of water
397	***Perspectives*** Identify values to solve water management issues
400	***Water: Read All About It!*** Develop a Special Edition on water
403	***Water Bill of Rights*** Create a document to guarantee the right to clean and sustainable water resources
407	***Water Concentration*** Play concentration and discover how water use practices evolve
413	***Water Court*** Participate in a mock court to settle water quality and quantity disputes
421	***Water Crossings*** Simulate a water crossing and relate the historical significance of waterways
425	***What's Happening?*** Conduct a community water use survey
429	***Whose Problem Is It?*** Analyze the scope and duration of water issues to determine personal and global significance
435	***Raining Cats and Dogs*** Discover how water proverbs vary among culture and climates
442	***Rainstick (The)*** Build an instrument that imitates the sound of rain
446	***Water Celebration*** Organize a water celebration with activities from this guide
450	***wAteR in motion*** Create artwork that simulates the movement and sound of water in nature
454	***Water Message in Stone*** Replicate ancient rock art, creating symbols of water
457	***Water Write*** Explore feelings about and perception of water topics through writing exercises
460	***Wish Book*** Compare recreational uses of water in the late 1800s and the present

Third Grade

	The Nature of Science and Technology	Scientific Thinking	The Physical Setting	The Living Environment	The Mathematical World	Common Themes
ACTIVITY						
Adventures in Density (25)	3.1.2 3.1.3 3.1.4, 3.1.5	3.2.3 3.2.4 3.2.6, 3.2.7				
AfterMath (289)	3.1.2, 3.1.3 3.1.4, 3.1.5	3.2.1	3.3.6			
A-maze-ing Water (219)	3.1.2, 3.1.4 3.1.5, 3.1.8	3.2.5 3.2.6				
Aqua Bodies (63)	3.1.2, 3.1.3 3.1.4	3.2.4 3.2.6		3.4.6		
Aqua Notes (66)				3.4.6		
Back to the Future (293)	3.1.2, 3.1.3 3.1.4, 3.1.5	3.2.4 3.2.7	3.3.5 3.3.6	3.4.6	3.5.1 3.5.3	3.6.4
Capture, Store, & Release (133)	3.1.2 3.1.3 3.1.4	3.2.2 3.2.4 3.2.5 3.2.7			3.5.1 3.5.5	
Cold Cash in the Icebox (373)	3.1.2, 3.1.3 3.1.4, 3.1.5 3.1.6	3.2.2 3.2.4 3.2.6, 3.2.7			3.5.1	3.6.4 3.6.5
Common Water (232)	3.1.2, 3.1.4 3.1.5, 3.1.8	3.2.7				
A Drop in the Bucket (238)				3.4.6	3.5.1 3.5.3	3.6.4
Easy Street (382)	3.1.2, 3.1.3 3.1.4, 3.1.6	3.2.1 3.2.7		3.4.6		3.6.4
Energetic Water (242)	3.1.2, 3.1.4 3.1.5, 3.1.6	3.2.5 3.2.7	3.3.8			
Geyser Guts (144)	3.1.2 3.1.4	3.2.7				3.6.1 3.6.5
H20 Olympics (30)	3.1.1, 3.1.2 3.1.3, 3.1.4 3.1.5	3.2.1, 3.2.2 3.2.4, 3.2.5 3.2.6, 3.2.7			3.5.1 3.5.2 3.5.3	
Every Drop Counts (307)	3.1.2 3.1.3 3.1.4	3.2.3 3.2.4 3.2.5, 3.2.6			3.5.1 3.5.3	3.6.4
Hangin' Together (35)	3.1.2 3.1.4 3.1.5	3.2.6 3.2.7				
Humpty Dumpty (316)	3.1.2, 3.1.3 3.1.4, 3.1.5 3.1.8	3.2.3 3.2.4 3.2.5, 3.2.6				3.6.2 3.6.5
Imagine! (157)	3.1.2 3.1.3, 3.1.4	3.2.3 3.2.6				3.6.4
The Incredible Journey (161)	3.1.2 3.1.4 3.1.5	3.2.3				
Irrigation Interpretation (254)	3.1.2 3.1.4 3.1.6	3.2.4 3.2.5				

	The Nature of Science and Technology	Scientific Thinking	The Physical Setting	The Living Environment	The Mathematical World	Common Themes
ACTIVITY						
Is there Water on Zork? (43)	3.1.1, 3.1.2 3.1.3, 3.1.4 3.1.5	3.2.2 3.2.4 3.2.6, 3.2.7				
Just Passing Through (166)	3.1.2. 3.1.4 3.1.5	3.2.7	3.3.5			3.6.5
Let's Even Things Out (72)	3.1.2 3.1.3 3.1.5	3.2.6				
Let's Work Together (9)	3.1.5					
The Life Box (76)	3.1.2 3.1.4	3.2.7		3.4.4 3.4.6		
Life in the Fast Lane (79)	3.1.2 3.1.3 3.1.4, 3.1.5	3.2.3 3.2.4				3.6.4 3.6.5
The Long Haul (260)	3.1.2, 3.1.4 3.1.5, 3.1.6					
Macro-invertebrate (322)	3.1.2 3.1.4 3.1.5			3.4.1 3.4.6		
Molecules in Motion (47)	3.1.2, 3.1.3 3.1.5	3.2.3 3.2.6				
Money Down the Drain (328)	3.1.2, 3.1.3 3.1.4, 3.1.5		3.2.1 3.2.2		3.5.1	
No Bellyachers (85)	3.1.2 3.1.4 3.1.5			3.4.7 3.4.8 3.4.9		
Old Water (171)	3.1.2, 3.1.3 3.1.4, 3.1.5	3.2.4, 3.2.5 3.2.6	3.3.5			3.6.5
Pass the Jug (392)	3.1.2, 3.1.4 3.1.5	3.2.7	3.3.8			
Piece It Together (174)	3.1.2 3.1.4 3.1.5	3.2.7		3.4.6		
Poetic Precipitation (182)	3.1.2 3.1.3 3.1.4, 3.1.5	3.2.3 3.2.4 3.2.5, 3.2.7			3.5.1	3.6.4 3.6.5
Poison Pump (93)	3.1.2, 3.1.4 3.1.5			3.4.8 3.4.9		
Raining Cats and Dogs (435)	3.1.5					
The Rain stick (442)		3.2.5	3.3.9			
Rainy-Day Hike (186)	3.1.2, 3.1.3 3.1.4, 3.1.5 3.1.8	3.2.3 3.2.4 3.2.6, 3.2.7	3.3.5	3.4.6	3.5.1	
Reaching Your Limits (344)	3.1.2 3.1.4 3.1.5	3.2.6 3.2.7		3.4.6	3.3.1 3.5.5	

	The Nature of Science and Technology	Scientific Thinking	The Physical Setting	The Living Environment	The Mathematical World	Common Themes
ACTIVITY						
Salt Marsh Players (99)	3.1.2, 3.1.4 3.1.5	3.2.6	3.3.1 3.3.5	3.4.6		3.6.5
Sparkling Water (348)	3.1.2, 3.1.3 3.1.4, 3.1.5	3.2.2, 3.2.4 3.2.6, 3.2.7		3.4.6, 3.4.8 3.4.9		
Stream Sense (191)	3.1.2, 3.1.3 3.1.4, 3.1.5	3.2.3 3.2.6		3.4.9		
Sum of the Parts (267)	3.1.2, 3.1.4 3.1.5, 3.1.8	3.2.7				
Super Bowl Surge (353)	3.1.2 3.1.4, 3.1.5					
The Thunderstorm (196)	3.1.2, 3.1.3 3.1.4, 3.1.5	3.2.1 3.2.6	3.3.5		3.5.1 3.5.2	
Water Address (122)	3.1.2 3.1.4 3.1.5	3.2.6		3.4.6		
Water Bill of Rights (403)				3.4.6		
Water Celebration (446)	3.1.5	3.2.5	3.3.9			
Water Concentration (407)	3.1.2 3.1.3 3.1.6 3.1.8	3.2.6 3.2.7		3.4.8 3.4.9		3.6.5
Water Crossings (421)	3.1.2, 3.1.4 3.1.5 3.1.6	3.2.4 3.2.5 3.2.6				3.6.3
Water Log (19)	3.1.3	3.2.3 3.2.6				
wAteR in moTion (450)	3.1.2 3.1.4 3.1.5	3.2.2, 3.2.4 3.2.5, 3.2.6 3.2.7				3.6.1
Water Match (50)	3.1.2 3.1.3, 3.1.8					
Water Messages (454)	3.1.5	3.2.6				
Water Meter (271)	3.1.2, 3.1.3 3.1.4, 3.2.5	3.2.1 3.2.3		3.4.6	3.5.1 3.5.3	3.6.4
Water Models (201)	3.1.2 3.1.3 3.1.4	3.2.2, 3.2.4 3.2.5, 3.2.6 3.2.7			3.5.1	3.6.4
Water Works (274)	3.1.2, 3.1.4 3.1.5	3.2.6 3.2.7	3.3.8			
Water Write (457)	3.1.5					
Wish Book (460)	3.1.6			3.4.2		

	The Nature of Science and Technology	Scientific Thinking	The Physical Setting	The Living Environment	The Mathematical World	Common Themes
ACTIVITY						
Wet-Work Shuffle (360)	3.1.2, 3.1.3 3.1.4 3.1.6	3.2.3				3.6.1
Wetland Soils (212)	3.1.2, 3.1.3 3.1.4, 3.1.5	3.2.4, 3.2.6 3.2.7		3.4.1 3.4.2		
What's Happening? (425)	3.1.2 3.1.3 3.1.4, 3.1.5	3.2.6 3.2.7				
What's the Solution? (54)	3.1.2 3.1.3 3.1.4, 3.1.5	3.2.6 3.2.7				3.6.5

Grade 3

Standard 1

The Nature of Science and Technology

Students, working collaboratively, carry out investigations. They question, observe, and make accurate measurements. Students increase their use of tools, record data in journals, and communicate results through chart, graph, written, and verbal forms.

The Scientific View of the World

3.1.1 Recognize and explain that when a scientific investigation is repeated, a similar result is expected.

WET Activities (page): 30, 43

Scientific Inquiry

3.1.2 Participate in different types of guided scientific investigations such as observing objects and events and collecting specimens for analysis.

WET Activities (page): 25, 30, 35, 43, 47, 50, 54, 63, 72, 76, 79, 85, 93, 99, 122, 133, 144, 15, 161, 166, 171, 174, 182, 186, 191, 196, 201, 212, 219, 232, 242, 254, 260, 267, 271, 274, 293, 307, 316 , 322, 328, 344,348, 360,373, 382, 392, 407, 421, 450

3.1.3 Keep and report records of investigations and observations* using tools, such as journals, charts, graphs, and computers.

WET Activities (page): 19, 25, 30, 43, 47, 50, 72, 79, 157, 171, 182, 186, 191, 196, 201, 212, 271, 289, 293, 307, 316, 328, 348, 360, 373, 382, 407, 425

3.1.4 Discuss the results of investigations and consider the explanations of others.*observation: gaining information through the use of one or more of the senses, such as sight, smell, etc.

WET Activities (page): 25, 30, 35, 43, 54, 63, 76, 79, 85, 93, 99, 122, 133, 144, 157, 161, 166, 171, 174, 182, 186, 191, 196, 201, 212, 219, 232, 242, 254, 260, 267, 271, 274, 289, 293, 307, 316, 322, 328, 344, 348, 353, 360, 373, 382, 392, 421, 425, 450

The Scientific Enterprise

3.1.5 Demonstrate the ability to work cooperatively while respecting the ideas of others and communicating one's own conclusions about findings.

WET Activities (page): 254, 260, 360, 373, 382, 407, 460

Technology and Science

3.1.6 Give examples of how tools, such as automobiles, computers, and electric motors, have affected the way we live.

WET Activities (page): 9, 25, 30, 35, 43, 47, 54, 72, 79, 85, 93, 99, 122, 161, 166, 171, 174, 182, 186, 191, 196, 212, 219, 232, 242, 260, 267, 274,

289, 293, 316, 322, 328, 344, 345, 348, 353, 373, 392, 421, 425, 435, 446, 450, 454, 457

3.1.8 Describe how discarded products contribute to the problem of waste disposal and that recycling can help solve this problem.

WET Activities (page): 50, 186, 219, 232, 267, 316, 407

Standard 2

Scientific Thinking

Students use a variety of skills and techniques when attempting to answer questions and solve problems. They describe their observations accurately and clearly, using numbers, words, and sketches, and are able to communicate their thinking to others.

Computation and Estimation

3.2.1 Add and subtract whole numbers* mentally, on paper, and with a calculator.*whole numbers: 0,1,2,3, etc.

WET Activities (page): 30, 196, 271, 289, 382

Manipulation and Observation

3.2.2 Measure and mix dry and liquid materials in prescribed amounts, following reasonable safety precautions.

WET Activities (page): 30, 43, 133, 201, 348, 373, 450

3.2.3 Keep a notebook that describes observations and is understandable weeks or months later.

WET Activities (page): 25, 47, 79, 157, 182, 186, 191, 271, 307, 316, 360

3.2.4 Appropriately use simple tools, such as clamps, rulers, scissors, hand lenses, and other technology, such as calculators and computers, to help solve problems.

WET Activities (page): 25, 30, 43, 63, 79, 171, 182, 186, 201, 212, 254, 293, 307, 316, 348, 373, 421, 450

3.2.5 Construct something used for performing a task out of paper, cardboard, wood, plastic, metal, or existing objects.

WET Activities (page): 30, 133, 171, 182, 210, 219, 242, 254, 307, 316, 421, 442, 446, 450

Communication Skills

3.2.6 Make sketches and write descriptions to aid in explaining procedures or ideas.

WET Activities (page): 19, 25, 30, 35, 43, 47, 54, 63, 72, 99, 122, 157, 171, 186, 191, 196, 201, 212, 219, 274, 307, 316, 344, 348, 373, 407, 421, 425, 450, 454

Critical Response Skills

3.2.7 Ask "How do you know?" in appropriate situations and attempt reasonable answers when others ask the same question.

WET Activities (page): 25, 30, 35, 43, 47, 54, 76, 133, 144, 166, 174, 182, 186, 201, 212, 232, 242, 267, 274, 293, 344, 348, 373, 382, 392, 407, 425, 450

Standard 3

The Physical Setting

Students observe changes of Earth and the sky. They continue to explore the concepts of energy and motion*.*

The Universe

3.3.1 Observe and describe the apparent motion of the sun and moon over a time span of one day.

WET Activities (page): 99

The Earth and the Processes That Shape It

3.3.5 Give examples of how change, such as weather patterns, is a continual process occurring on Earth.

WET Activities (page): 99, 166, 171, 186, 196, 293

3.3.6 Describe ways human beings protect themselves from adverse weather conditions.

WET Activities (page): 289, 293

3.3.8 Investigate and describe how moving air and water can be used to run machines, like windmills and waterwheels.
matter: anything that has mass and takes up space
*mass: the amount of matter in an object

WET Activities (page): 242, 274, 292

Forces of Nature

3.3.9 Demonstrate that things that make sound do so by vibrating, such as vocal cords and musical instruments.

WET Activities (page): 442, 446

Standard 4

The Living Environment

Students learn about an increasing variety of organisms. They use appropriate tools and identify similarities and differences among them. Students explore how organisms satisfy their needs in typical environments.

Diversity of Life

3.4.1 Demonstrate that a great variety of living things can be sorted into groups in many ways using various features, such as how they look, where they live, and how they act, to decide which things belong to which group.

WET Activities (page): 212, 322

3.4.2 Explain that features used for grouping depend on the purpose of the grouping.

WET Activities (page): 212, 460

Interdependence of Life and Evolution

3.4.4 Describe that almost all kinds of animals' food can be traced back to plants.

WET Activities (page): 76

Human Identity

3.4.6 Explain that people need water, food, air, waste removal, and a particular range of temperatures, just as other animals do.

WET Activities (page): 63, 66, 76, 122, 174, 186, 238, 271, 293, 32, 344, 348, 382, 403

3.4.7 Explain that eating a variety of healthful foods and getting enough exercise and rest help people to stay healthy.

WET Activities (page): 85

3.4.8 Explain that some things people take into their bodies from the environment can hurt them and give examples of such things.

WET Activities (page): 85, 93, 348, 407

3.4.9 Explain that some diseases are caused by germs and some are not. Note that diseases caused by germs may be spread to other people. Also understand that hand washing with soap and water reduces the number of germs that can get into the body or that can be passed on to other people.

WET Activities (page): 85, 93, 191, 348, 407

Standard 5

The Mathematical World

Students apply mathematics in scientific contexts. Students make more precise and varied measurements when gathering data. Based upon collected data, they pose questions and solve problems. Students use numbers to record data and construct graphs and tables to communicate their findings.

Numbers

3.5.1 Select and use appropriate measuring units, such as centimeters (cm) and meters (m), grams (g) and kilograms (kg), and degrees Celsius (˚C).

WET Activities (page): 30, 133, 182, 186, 196, 201, 238, 271, 293, 307, 328, 373

3.5.2 Observe that and describe how some measurements are likely to be slightly different, even if what is being measured stays the same.

WET Activities (page): 30, 196

Shapes and Symbolic Relationships

3.5.3 Construct tables and graphs to show how values of one quantity are related to values of another.

WET Activities (page): 30, 238, 271, 293, 307

Reasoning and Uncertainty

3.5.5 Explain that one way to make sense of something is to think of how it relates to something more familiar.

WET Activities (page): 133, 344

Standard 6

Common Themes

Students work with an increasing variety of systems and begin to modify parts in systems and models and notice the changes that result. They question why change occurs.

Systems

3.6.1 Investigate how and describe that when parts are put together, they can do things that they could not do by themselves.

WET Activities (page): 144, 360, 450

3.6.2 Investigate how and describe that something may not work if some of its parts are missing.

WET Activities (page): 316

Constancy and Change

3.6.4 Take, record, and display counts and simple measurements of things over time, such as plant or student growth.

WET Activities (page): 79, 182, 201, 238, 271, 293, 307, 373, 382

3.6.5 Observe that and describe how some changes are very slow and some are very fast and that some of these changes may be hard to see and/or record.

WET Activities (page): 54, 79, 99, 144, 166, 171,182, 316, 373, 407